

PNEUDRAULIC SYSTEMS

(C-130E)

1. Objective. As prescribed in AFI 38-201, *Determining Manpower Requirements*, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower required to accomplish the tasks described in the work center description for varying levels of workload volume.

2. Authority. The AFI 21-series of Air Force (AF) and/or Air National Guard (ANG) directives contain US Air Force and Command policy and procedural guidance for the Pneudraulic Systems work center. This manpower standard was developed using the functional review process under procedures outlined in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.

3. Applicability. This standard applies to all Air National Guard C-130E airlift units except the 109th and 189th Airlift Groups and the 193rd Special Operations Group. This standard applies only to peacetime operations.

4. Standard Data:

- a. Classification. Type II.
- b. Approval Date. 9 July 1992.
- c. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
- d. Standard Man-hour Equation. $Y = -7.954 + 1.263X$.
- e. Workload Factor:
 - (1). Title. A C-130E Programmed Flying Hour.
 - (2). Definition. The average monthly flying hours programmed for C-130E aircraft.
 - (3). Source. Manpower Flying Hour Maintenance Mat maintained by ANGRC/MO for specific weapon systems. Determine appropriate Mat based on type weapon system, number of primary aircraft authorized, and type mission. Read flying hours from topblock and divide by 12 to derive monthly average to use in the standard man-hour equation.

5. Application Instructions:

- a. The valid man-hour range for this ANGMS is 349.50 through 582.51.
- b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
- c. Refer to the appropriate column in the standard manpower table at attachment 2 to determine the skill distribution.
- d. Should the extrapolation limits be exceeded, see AFI 38-201, *Determining Manpower Requirements*, for guidance.

6. Statement of Conditions:

- a. There were no general conditions (environmental, equipment, or facility) which had an impact on the development or application of this manpower standard.
- b. There were no approved enhancements that impacted the man-hour equation for this work center.

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2 Attachments
1. Work Center Description
2. Standard Manpower Table

WORK CENTER DESCRIPTION**Pneudraulics Systems
(C-130E)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1. MAINTAINS HYDRAULIC AND PNEUMATIC POWER SUPPLY SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.1.1. MAINTAINS HYDRAULIC RESERVOIR SYSTEM.

1.1.2. MAINTAINS PUMP SYSTEM.

1.1.3. MAINTAINS ACCUMULATOR SYSTEM.

1.1.4. MAINTAINS FILTER SYSTEM.

1.1.5. MAINTAINS HYDRAULIC PRESSURE INDICATION INSTRUMENT.

1.1.6. MAINTAINS VALVE.

1.2. MAINTAINS HYDRAULIC DOOR SYSTEM.

1.3. MAINTAINS LANDING GEAR. Inspects, troubleshoots, and repairs equipment.

1.4. MAINTAINS FLIGHT CONTROL. Inspects, troubleshoots, and repairs equipment.

1.5. PERFORMS INSPECTION. Performs special, phase, and hourly aircraft inspection.

1.5.1. PERFORMS SPECIAL INSPECTION.

1.5.2. PERFORMS PHASE/HOURLY INSPECTION.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. MAINTAINS HYDRAULIC AND PNEUMATIC POWER SUPPLY SYSTEM. Inspects, troubleshoots, and repairs equipment.

2.1.1. MAINTAINS HYDRAULIC RESERVOIR SYSTEM.

2.1.2. MAINTAINS VALVE.

2.1.3. MAINTAINS PUMP SYSTEM.

2.1.4. MAINTAINS ACCUMULATOR SYSTEM.

2.1.5. MAINTAINS FILTER SYSTEM.

2.1.6. MAINTAINS HYDRAULIC PRESSURE INDICATION INSTRUMENT.

2.2. MAINTAINS HYDRAULIC DOOR SYSTEM.

2.3. MAINTAINS LANDING GEAR. Inspects, troubleshoots, and repairs equipment.

2.4. MAINTAINS FLIGHT CONTROL. Inspects, troubleshoots, and repairs equipment.

3. MAINTAINS NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE).

4. PERIODIC MAINTENANCE ON EQUIPMENT IN BASE SUPPLY. Performs periodic functional check or calibration of equipment stored in Base Supply to maintain shelf life and ensure serviceability before use.

5. SHOP SUPPORT GENERAL CODE. Performs shop support general code.

6. GROUND HANDLING, SERVICING, AND RELATED TASK. Performs ground handling, servicing, and related task.

7. ASSISTANCE. Assists other Maintenance function in the performance of direct labor maintenance requirement to ensure effective utilization of maintenance personnel.

8. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs maintenance required on/off the aircraft in accordance with applicable TCTO and completes documentation.

9. UNIT TRAINING ASSEMBLY (UTA), MOBILITY REQUIREMENT, AND BATTLE DAMAGE PROGRAM. Performs planning and scheduling tasks associated with preparation for UTA weekend, mobility requirement, and the Battle Damage Program.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE									
WORK CENTER/FAC					APPLICABILITY MAN-HOUR RANGE				
Pneudraulic Systems/: 23340E (C-130E)					349.50 - 582.51				
AIR FORCE SPECIALTY TTITLE	AFSC	GRADE	MANPOWER REQUIREMENT						
Aircraft Acft Pneudraulic Sys	452XX	Civ	1	1					
	454X4	Civ	2	3					
TOTAL			3	4					
AIR FORCE SPECIALTY TTITLE	AFSC	GRADE	MANPOWER REQUIREMENT						
TOTAL									